

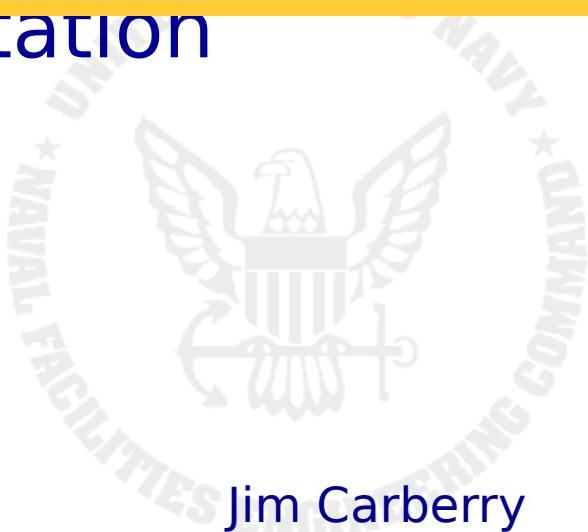


**Naval Facilities Engineering Command**  
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# NAVFAC Electronic Document Management System Implementation



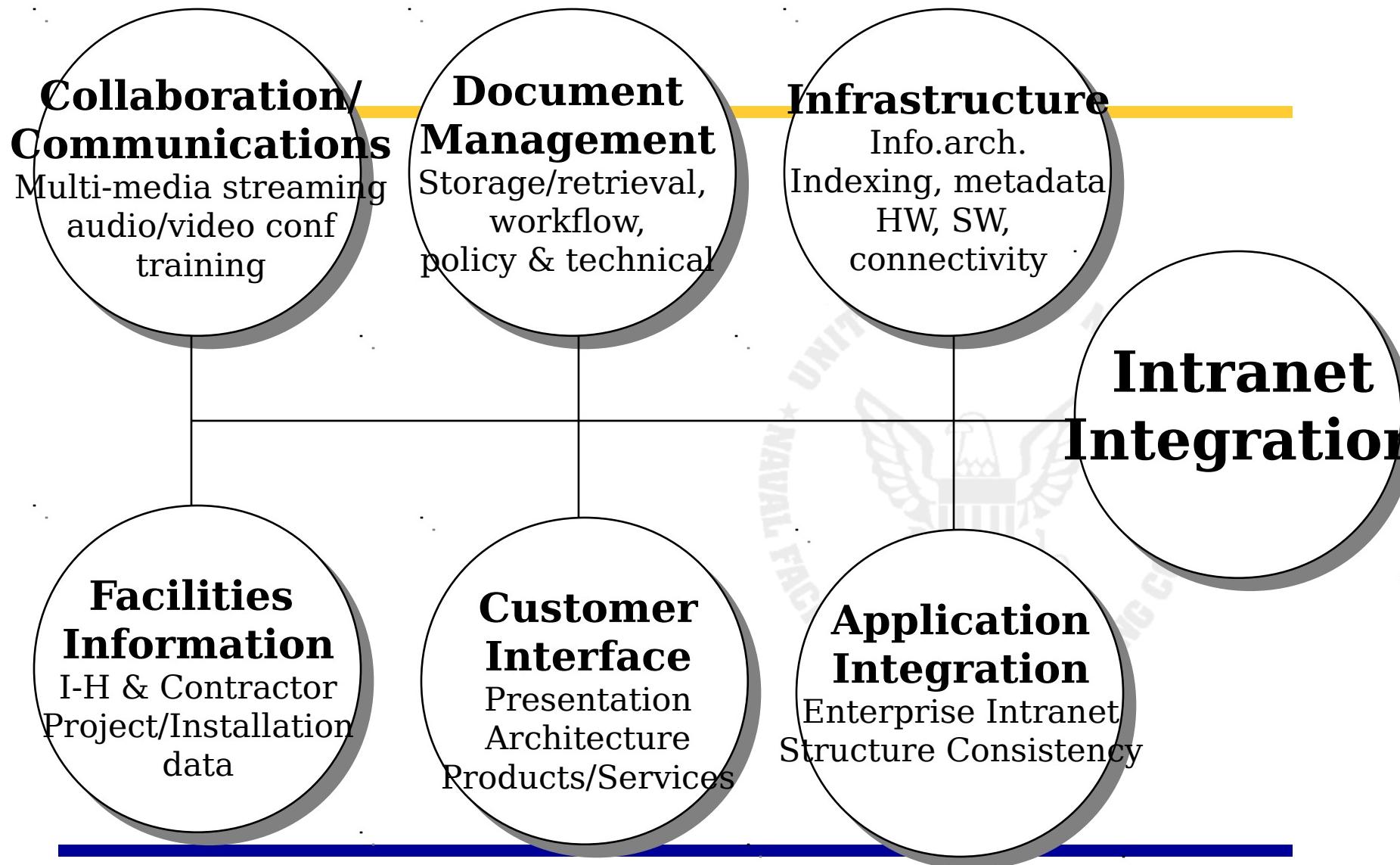
Jim Carberry  
[carberryjj@navfac.navy.mil](mailto:carberryjj@navfac.navy.mil)  
25 May 2000

# EDMS potential is ubiquitous

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- Examples of application functions/areas
    - Correspondence
    - Environmental, Records of Decision, HazMat, MSDS
    - Family Housing
    - Project Management
    - Contracts
    - Engineering drawings
    - Equipment operations manuals
    - Counsel
    - Planning studies
    - Etc., etc.
-

# Vanguard Sub Groups



# Background

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- Vanguard (Intranet) Document Management Subgroup tasking
- Research, recommend COTS EDMS software
  - Using Oracle RDBMS
  - Web-based (“Business through the Browser”)
  - Workflow as well as storage/retrieval

# 43 EDMS criteria

## [ incorporated DON CIO ITSG EDMS guidance ]

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- Categories - EDMS and RMA

- Architecture
- Capture & Storage
- Retrieval
- Workflow
- Administration
- Application Programming Interface
- Annotation
- Document Filing
- End-User Services (Classification, Reservation/Checkout, File Plan, Records Schedules)



# Doc Mgmt Sub-group Recommendations

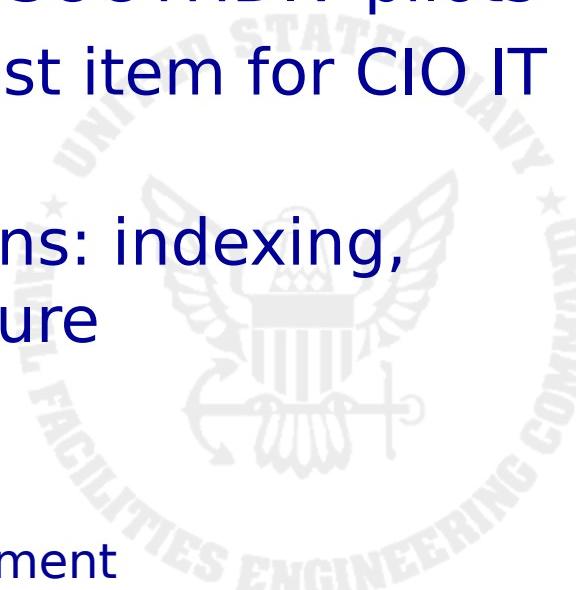
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- Multiple EDMS/RMA packages examined
  - For top-rated packages:
    - Pricing
    - Contract sources
    - References
    - Packaging
  - NAVFAC CIO designated Cimage with Oracle Workflow for enterprise architecture
-

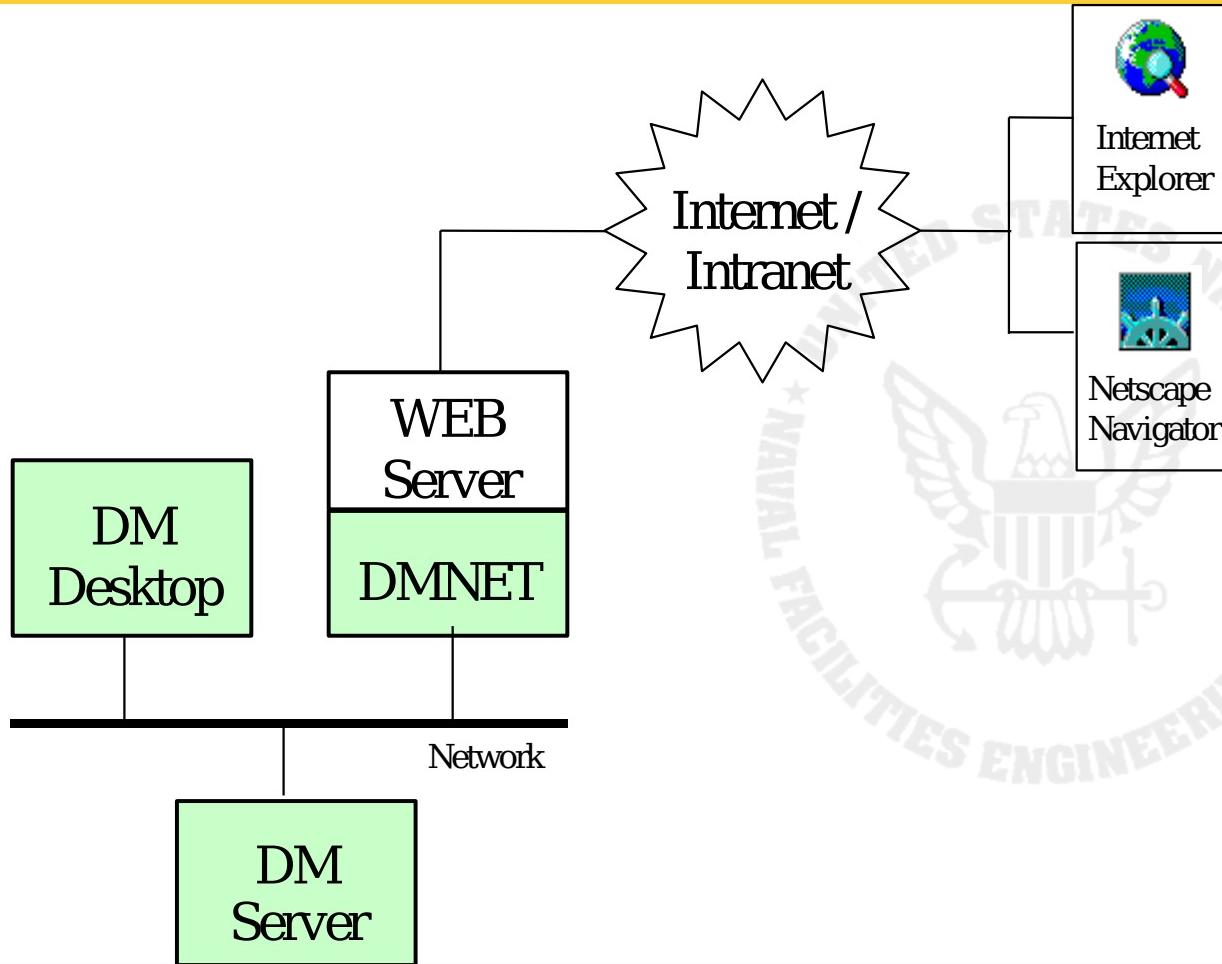
# CIO decision announcement

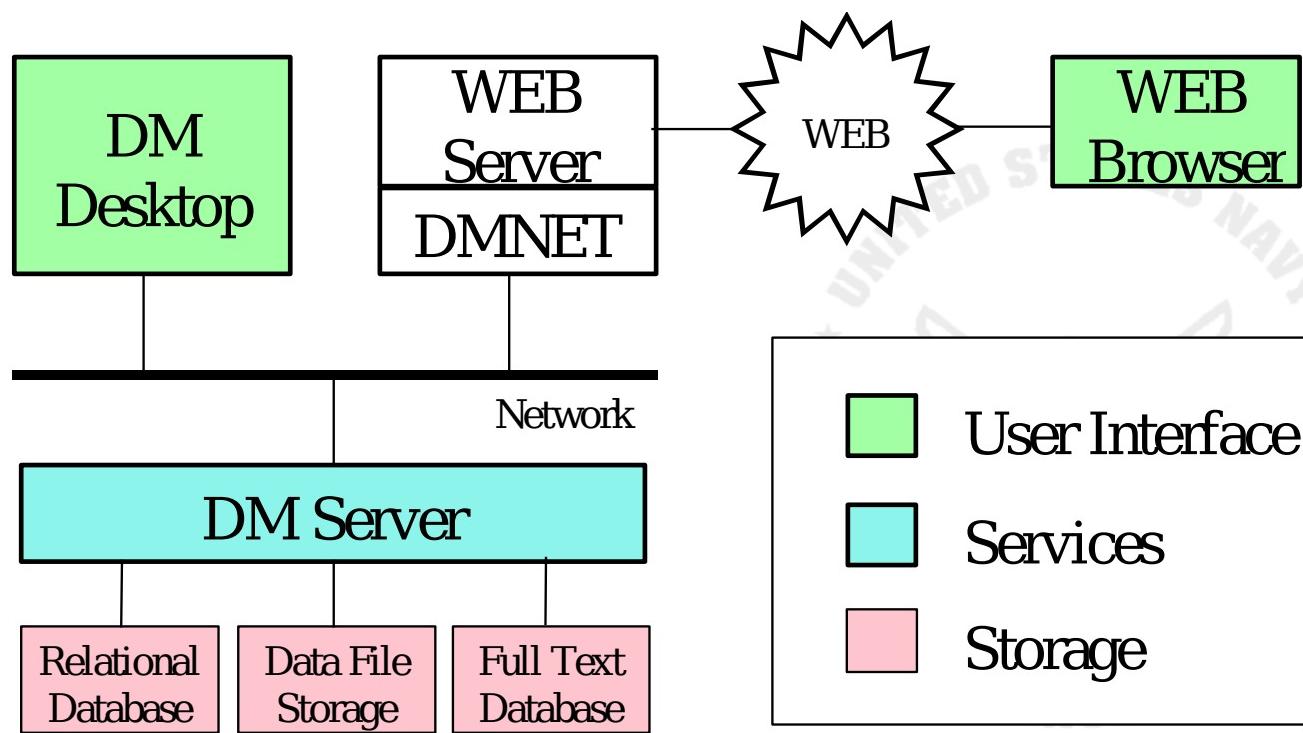
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- Cimage selected for pilot “proof of concept”
- CIO sponsoring LANTDIV & SOUTHDIV pilots
- EDMS is LCM Special Interest item for CIO IT approval
- Enterprise standard solutions: indexing, metadata, tech. Infrastructure
- CIO guidance
  - enterprise index
  - corporate configuration management
    - roll out enterprise applications from CDA



# Basic DM architecture





# Server SW components

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- Document Manager Server, with Markup Manager & Document Linking
  - Remote Database Manager
  - Document Manager Import
  - Full Text Retrieval Server
  - Output Server
  - Small Format Output Server
  - File Conversion Server
  - Batch Callable Interface
  - DM-Net
  - Application Builder
  - System Administration Tool
  - DM API Toolkit Libraries, Includes License for DM AutoCAD, DM Microstation and DM for Office suite
- 



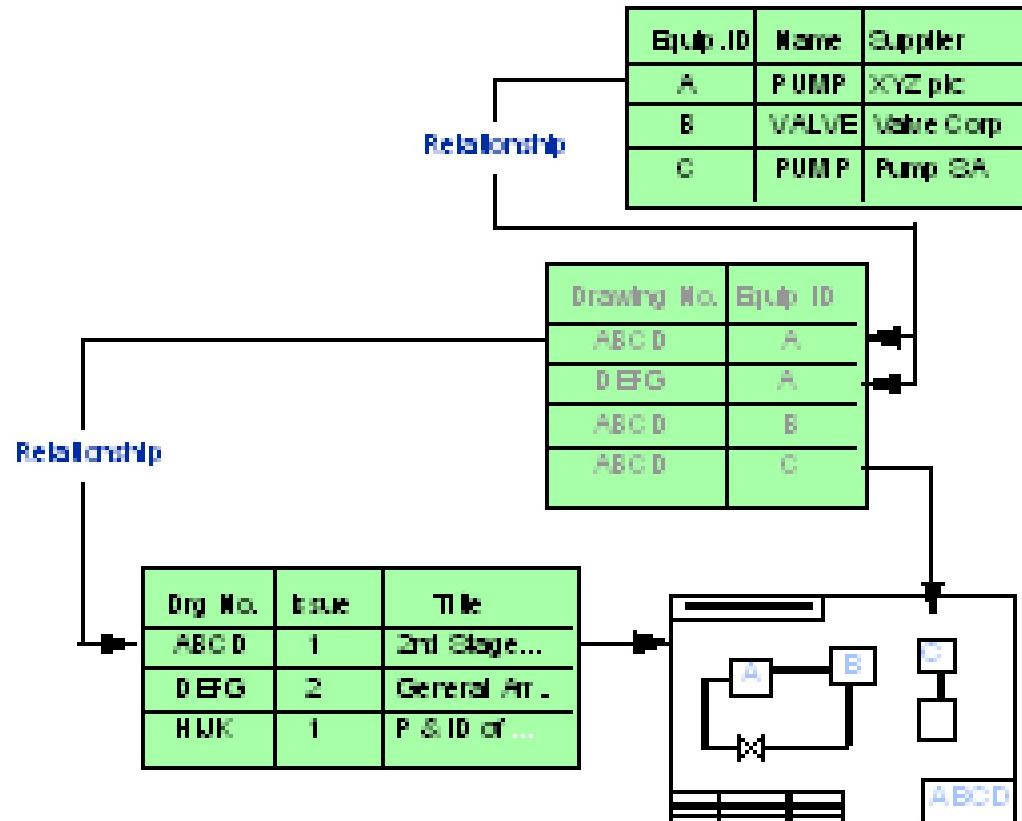
# Client components

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- Client 32 bit Desktop with ImageMaster
  - ImageMaster View/Markup
  - ImageMaster Edit
  - Full Text Retrieval Access
  - CAD View for ImageMaster
  - DM-Net Access
  - DM for AutoCAD
  - DM for MicroStation
  - DM for MS Office (Word)
- 
- A faint watermark of the U.S. Navy seal is centered on the slide. It features an eagle with wings spread, perched atop a shield with vertical stripes, and holding an anchor in its talons. The words "UNITED STATES NAVY" are written in a circular arc above the eagle, and "NAVAL FACILITIES ENGINEERING COMMAND" are written below it.

# Application Configuration

## Indexing, Foldering, Security, CI/CO, FTR, Retention, etc.

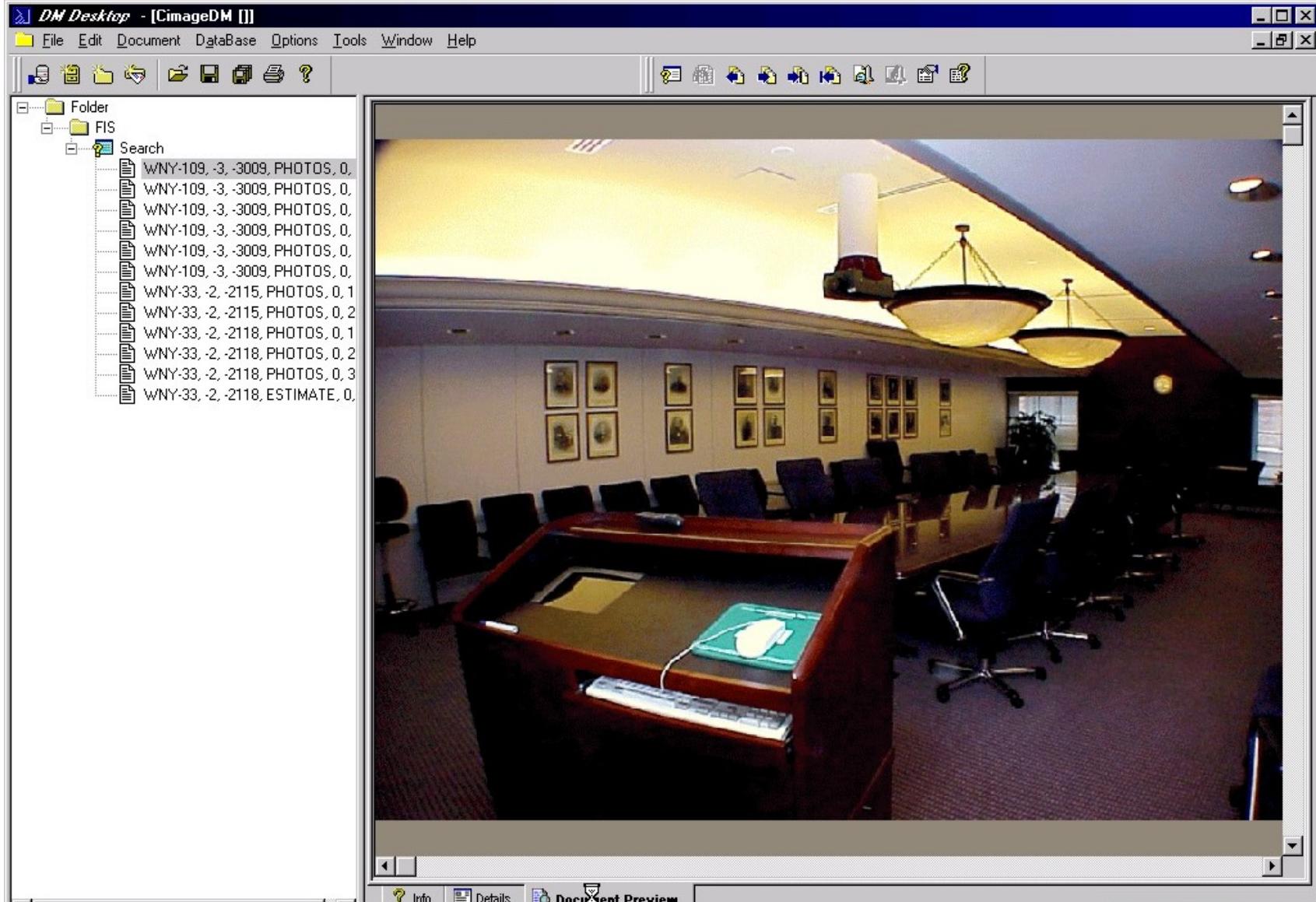


# CADD/GIS

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- EDMS  
capture/storage/retrieval/management  
of spatial data documents
- Access to documents in EDMS via  
spatial data applications





# NAVFAC EDMS Projects

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- EDMS Pilot
    - SOUTHDIV/LANTDIV/NITC
    - Enterprise Real Estate & Contracts Applications
    - Systems interoperability studies
  - Web EDMS for Construction Management Support Demonstration
  - PWC Pearl Environmental Lab EDMS
  - Navy Rate Intervention Group EDMS
  - Oracle Projects PM Implementation
  - EDMS/Business (Quality) Management System Interoperability (Cimage/QualTrax)
-

# EDMS Pilot

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- Operational EDMS applications
    - LANTDIV - Real Estate documents, with workflow, full text retrieval
      - 1.2 M pgs backfile conversion
    - SOUTHDIV - Contracts and contract-related documents
      - 10 M pgs backfile conversion
  - Testing/prototype/interfaces
    - Ex.: Leases in RE EDMS system to FIS, Inc. FIS/FM CAFM lease management module
-

# Functional application area approach

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- Enterprise functional team for enterprise applications (no “local” applications)
  - Implementation methodology templates
    - Functional Requirements, Procedural Requirements, and Site Readiness Assessments
    - Application Specification (w Data Admin/Resource Mgmt for indexing data elements, lookup tables, etc.), Build, Installation
    - Test, Acceptance, Operational Prototype, Assessment
    - Support, Configuration Mgmt, Evolution
-

# Enterprise “Master Index”

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- One place to find all documents enterprise-wide
- Operated at NITC, Port Hueneme, CA
- Implemented using
  - Index table replication from distributed applications/sites (using Oracle Advanced Replication Manager)
  - Naming conventions, RECNO allocations
  - Index server FIFO cache





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